

## HTA

**METALLIC MAG DRIVE  
REGENERATIVE TURBINE PUMPS  
POMPE A TURBINA RIGENERATIVA  
A TRASCINAMENTO MAGNETICO  
IN METALLO**



### ■ MAIN FEATURES

Mag drive regenerative turbine pumps series HTA are made of AISI 316 or, if requested of other metallic materials (HASTELLOYS or TITANIUM) and are suitable for solvents, hydrocarbons, dangerous and inflammable liquids. Thanks to the innovative mag drive system, pumps model HTA reduce the risks of leakage and emissions and maintenance costs. The transmission of the motion occurs through magnetic joints without any mechanical seal. This design guarantees the maximum hermetic safety and efficiency. The pumped liquid has to be clean and without solids in suspension. Pumps series HTA are also available in ATEX version for zone 1 and 2 (pump model EM-T).

- High head / low flow capability minimizes by-pass requirements;
- Materials available: AISI 316; Hastelloy, TITANIUM;
- Materials in contact with the liquid: casing and impeller: stainless steel AISI 316; O-ring EPDM/VITON; bushing: PTFEC; shaft: Hastelloy C276;
- Max flow 7 m<sup>3</sup>/h; max head 80 mcl;
- Max Temperature: 160°C;
- Pressure Rating NP 25 at 20°C
- Impeller design handles up to 20% entrained gas. Ideal for pumping liquefied gas.

### ■ STANDARD

- Static shaft in HC 276;
- Chemical resistant PTFE/Carbon sleeve bearings standard;
- High torque magnetic coupling;
- Direct starting motors.

### ■ OPTIONAL

- ANSI 300 flanges available;
- ATEX version (pump mod. EM-T);
- Explosion proof motor;
- Dry-running protection;
- Baseplate.

### ■ CARATTERISTICHE

Le pompe a turbina rigenerativa a trascinamento magnetico in metallo serie HTA sono realizzate in AISI 316 o, a richiesta, in altri materiali metallici (HASTELLOYS o TITANIO). Sono adatte al pompaggio di solventi, idrocarburi e liquidi pericolosi ed infiammabili. Grazie all'innovativo sistema a trascinamento magnetico le pompe HTA riducono al minimo i rischi di perdite e i costi di manutenzione. La trasmissione del moto avviene infatti tramite giunti magnetici senza l'utilizzo di tenute meccaniche e questa caratteristica garantisce ermeticità del sistema, sicurezza ed efficienza. Il liquido pompato deve necessariamente essere pulito, senza solidi in sospensione. Le pompe della serie HTA sono disponibili anche in versione ATEX per zona 1 e zona 2 (pompa modello EM-T).

- Alta prevalenza e bassa portata riducono l'utilizzo di by-pass;
- Materiali disponibili: AISI 316, Hastelloy, Titanio;
- Materiali a contatto con il liquido: corpo e girante: Acciaio Inox AISI 316; O-ring EPDM/VITON; Boccole: PTFEC; - Albero Hastelloy C276;
- Portata fino a 7 m<sup>3</sup>/h; prevalenza fino a 80 mcl;
- Temperatura massima di esercizio: 160°C;
- Pressione nominale massima PN 25 a 20°C;
- Il design della girante consente di pompare liquidi con presenza di gas fino al 20%. Ideale per il pompaggio di gas liquefatti.

### ■ STANDARD

- Albero statico in HC 276;
- Boccola rotante in PTFE/Grafite per alta resistenza chimica;
- Elevata coppia magnetica;
- Avviamento diretto.

### ■ OPTIONAL

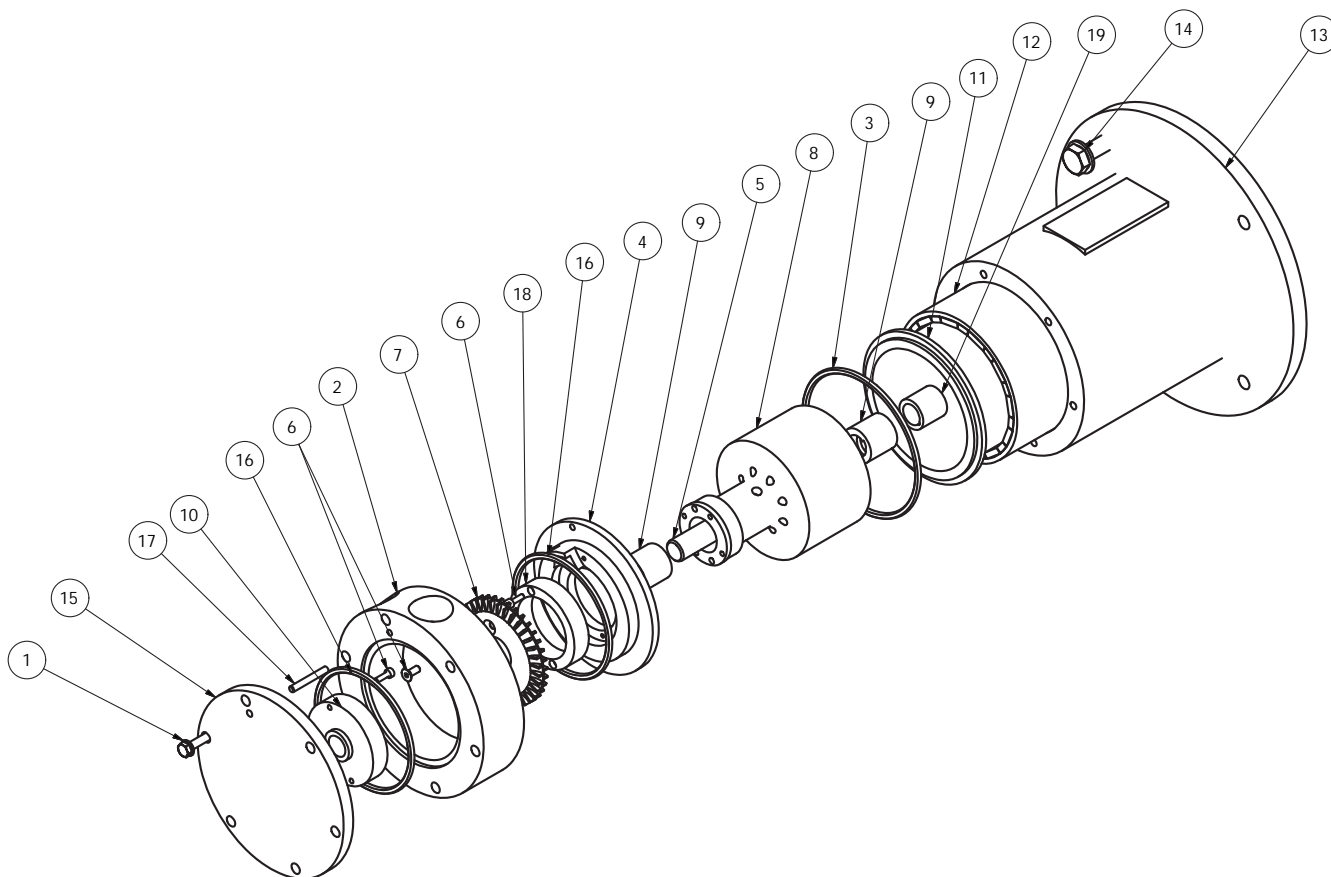
- Flange ANSI 300;
- Versione ATEX (pompe mod. EM-T);
- Motore antideflagrante;
- Protezione contro la marcia a secco;
- Basamento.

# HTA

EXPLODED VIEW AND PARTS LIST

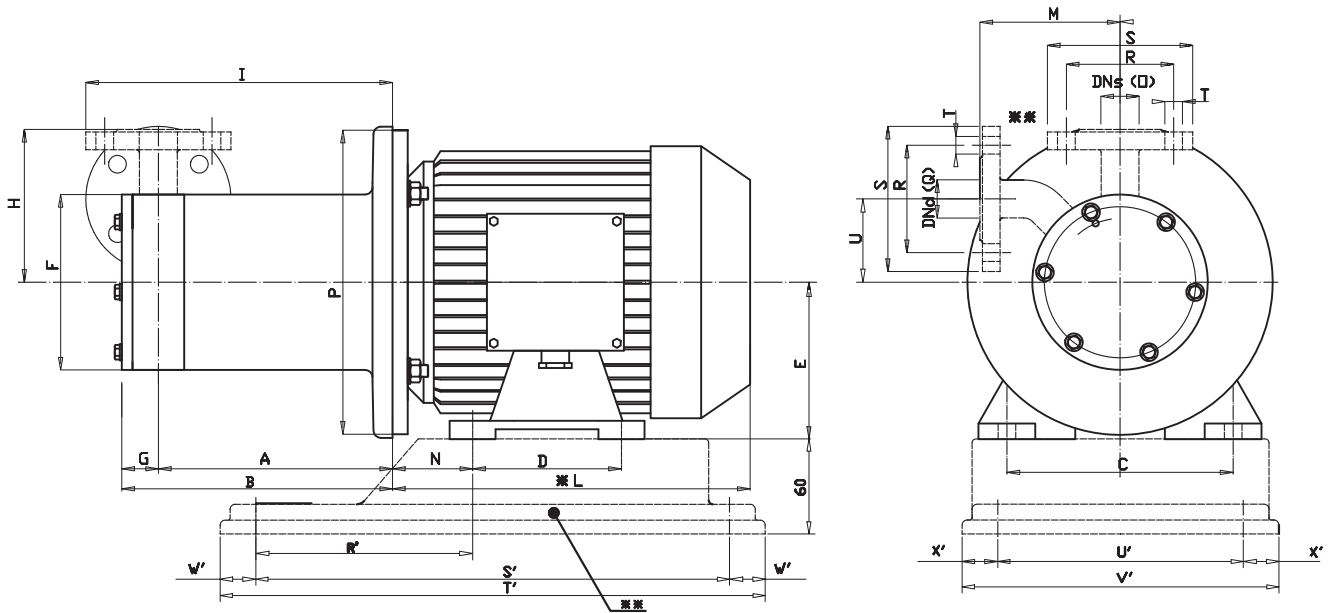
ESPLOSO E LISTA PARTI

## HTA 25-37 / EM-T 25-37 (ATEX VERSION) HTA 49-78 / EM-T 49-78 (ATEX VERSION)



POS.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
PART. DESCR. PARTI	SET SCREWS SET VITI	PUMP HEAD CORPO POMPA	O-RING O-RING	REAR FLANGE FLANGIA POSTERIORE	SHAFT ALBERO	SET SCREWS SET VITI	IMPELLER GIRANTE	INT. MAGNET MAGNETE INTERNO	BEARING BOCCOLA	STATIC FRONT RING ANELLO STATICO FRONT.	REAR CASING BICCHIERE	EXT. MAGNET MAGNETE ESTERNO	BRACKET LANTERNA	SET SCREWS SET VITI	COVER COPERCHIO	O-RING O-RING	PIN SPINA	STATIC REAR RING ANELLO STATICO POST.	REAR BEARING BOCCOLA POST.
Materials Materiali	AISI304	AISI316	EPDM VITON	AISI316	HAST C276	AISI316	AISI316	AISI 316 NdFeb	PTFEC	PTFEC	AISI316	C40 NdFeb	ALUMINIUM	AISI304	AISI316	EPDM VITON	AISI316	PTFEC	AISI316

### HTA 25-37 SS / EM-T 25-37 SS (ATEX VERSION)



PUMP TYPE	FLANGES DIMENSIONS - mm -				
	R	S	T	DN <sub>s</sub>	DN <sub>d</sub>
HTA 25-37	75	105	14	20	20

NOTE: DIRECTION OF ROTATION IS COUNTER CLOCKWISE AS SEEN WHEN FACING THE MOTOR.  
PUMPS AVAILABLE THREADED OR FLANGED.

\* Different according to the motor supplier

\*\* OPTIONAL UPON REQUEST: BASEPLATE - FLANGES.

PUMP TYPE	MOTOR B3-B5		BASEPLATE DIMENSIONS - mm -						
	SIZE	kW	R'	S'	T'	U'	V'	W'	X'
HTA 25	80	1,1	120	302	350	157	205	24	24
HTA 37	80	1,1	120	302	350	157	205	24	24
	90	2,2	132						

NOTA: ROTAZIONE ANTIORARIA VISTA DAL MOTORE.  
POMPE DISPONIBILI CON ATTACCHI FILETTATI O FLANGIATI.

\* Diverso a seconda del fornitore

\*\* SU RICHIESTA: PIEDE D'APPoggio - FLANGE

PUMP TYPE	MOTOR B3-B5		DIMENSIONS - mm -															
	SIZE	kW	A	B	C	D	E	F	G	H	I	*L	M	N	O	P	Q	U
HTA 25	80	1,1	167	192	125	100	80	123	25	100	218	232	98	50	3/4" G. FEMALE	200	3/4" G. FEMALE	61
HTA 37	80	1,1	167	192	125	100	80	123	25	100	220	232	98	50	3/4" G. FEMALE	200	3/4" G. FEMALE	61
	90	2,2	177	202	140	125	90				230	280		56				

# HTA

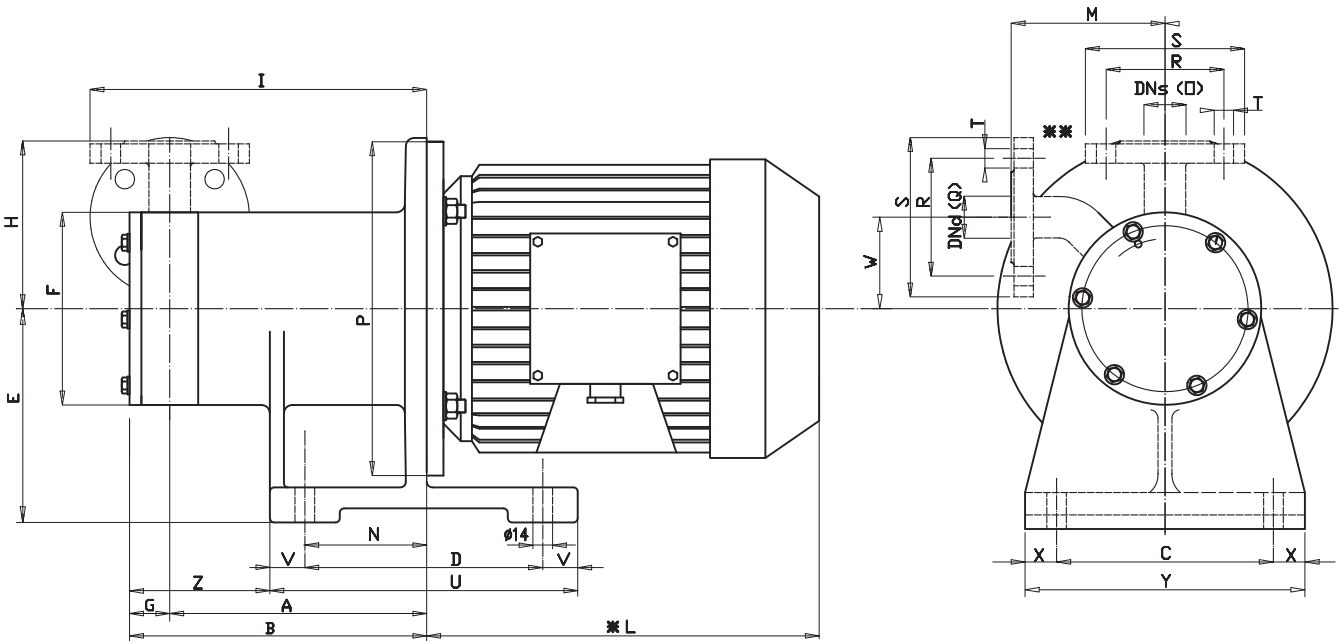
## DIMENSIONS

## DIMENSIONI D'INGOMBRO

**GemmeCotti**  
EUROPEAN PUMPS



### HTA 49-78 SS / EM-T 49-78 SS (ATEX VERSION)



PUMP TYPE	FLANGES DIMENSIONS - mm -					
	R	S	T	DN <sub>s</sub>	DN <sub>d</sub>	
HTA 49-78	85	115	14	25	25	DN25 PN16

NOTE: DIRECTION OF ROTATION IS COUNTER CLOCKWISE AS SEEN WHEN FACING THE MOTOR.  
PUMPS AVAILABLE THREADED OR FLANGED.

\* Different according to the motor supplier

\*\* OPTIONAL UPON REQUEST: FLANGES.

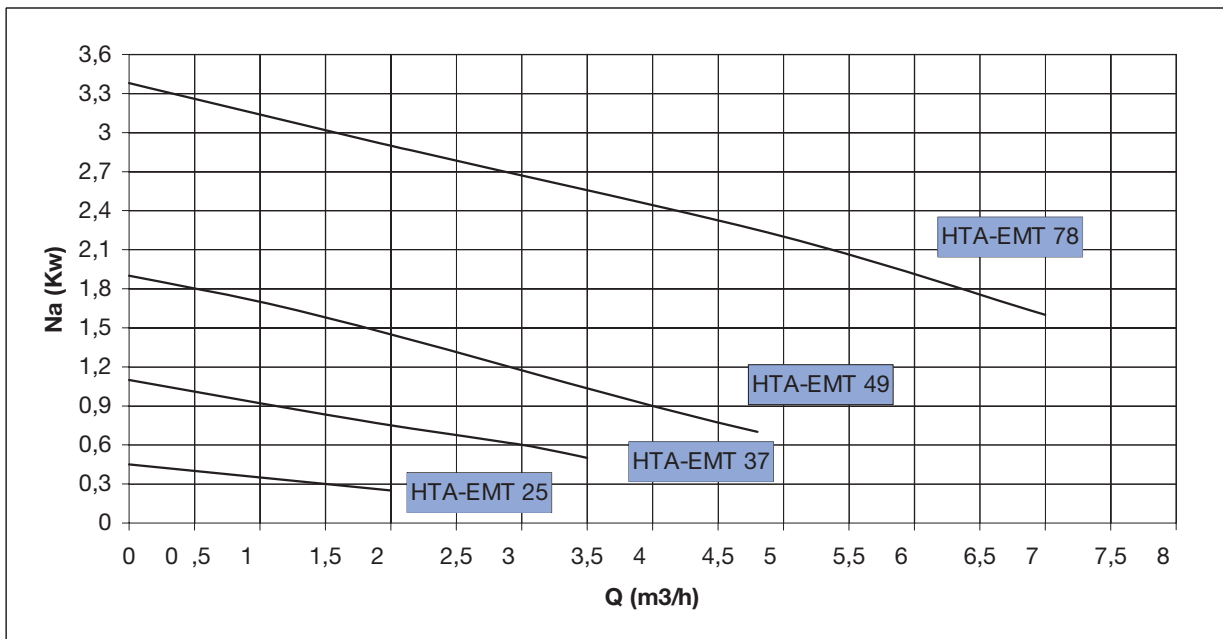
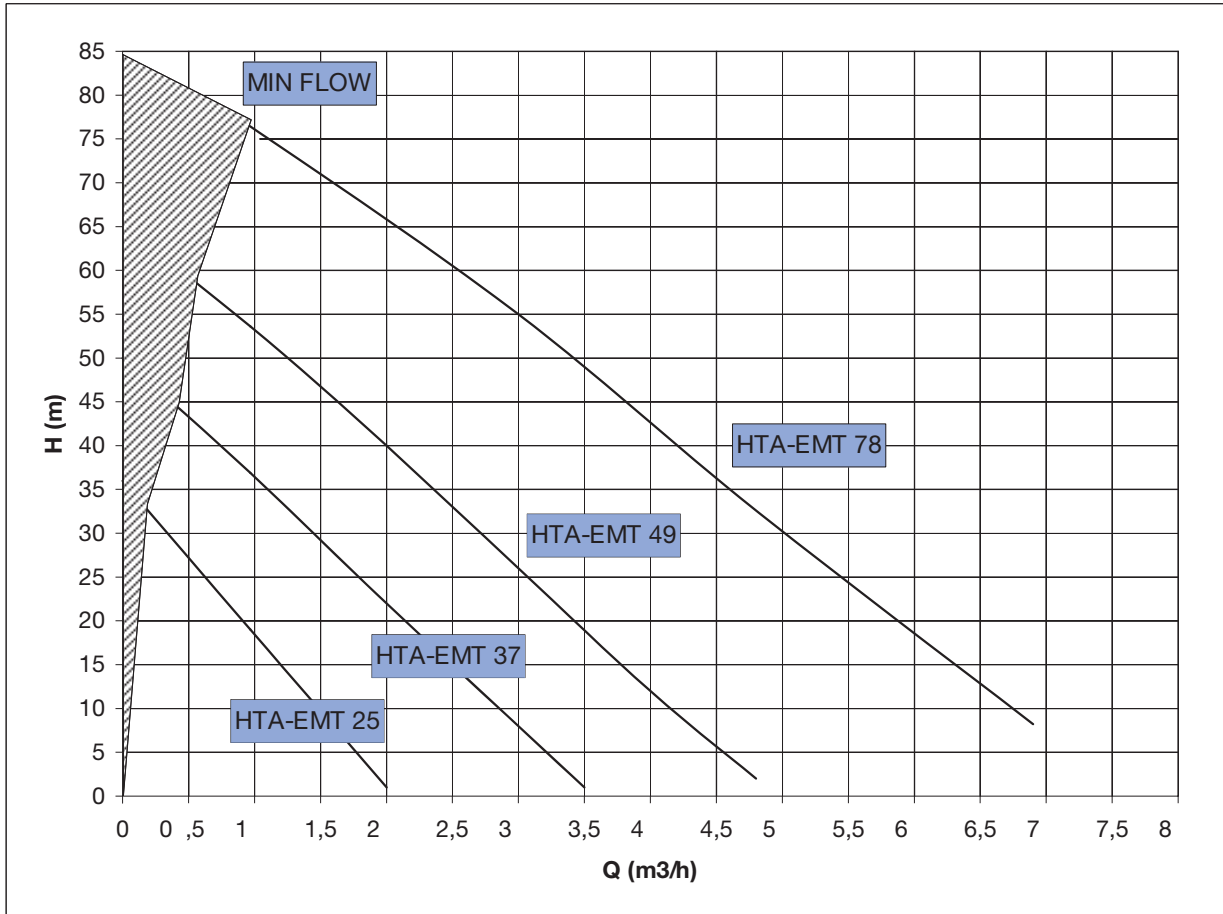
NOTA: ROTAZIONE ANTIORARIA VISTA DAL MOTORE.  
POMPE DISPONIBILI CON ATTACCHI FILETTATI O FLANGIATI.

\* Diverso a seconda del fornitore

\*\* SU RICHIESTA: FLANGE

PUMP TYPE	MOTOR B5		DIMENSIONS - mm -																				
	SIZE	kW	A	B	C	D	E	F	G	H	I	* L	M	N	O	P	Q	U	V	W	X	Y	Z
HTA 49	90	2,2	185	215	155	170	150	139	30	121	253	280	111	109	1" G. FEMALE	200	1" G. FEMALE	220	25	62,5	22,5	200	91
	100	3	205	235							263	316											
HTA 78	100	3	205	235	155	170	150	158	30	133	316	133	119	1" G. FEMALE	250	1" G. FEMALE	220	25	85,5	22,5	200	91	
	112	4									324												

50 HZ - 2900 RPM - 50 HZ - 2900 RPM



# RANGE OF PRODUCTION PANORAMA PRODUTTIVO

## HTM PP/PVDF



**MAG-DRIVE  
CENTRIFUGAL PUMPS**

- Q max: 45 m<sup>3</sup>/h - H max: 33 mlc
- Materials: PP / PVDF

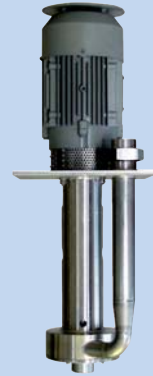
## HTM SS



**MAG-DRIVE  
CENTRIFUGAL PUMPS**

- Q max: 32 m<sup>3</sup>/h - H max: 24 mlc
- Materials: AISI 316

## PVA



**VERTICAL CENTRIFUGAL  
CANTILEVER PUMPS**

- Q max: 24 m<sup>3</sup>/h - H max: 26 mlc
- Materials: AISI 316 / TITANIUM

## HTT



**MAG-DRIVE  
REGENERATIVE TURBINE PUMPS**

- Q max: 9 m<sup>3</sup>/h - H max: 50 mlc
- Materials: PP / PVDF

## HTA



**MAG-DRIVE  
REGENERATIVE TURBINE PUMPS**

- Q max: 7 m<sup>3</sup>/h - H max: 80 mlc
- Materials: AISI 316 / HASTELLOY-C  
TITANIUM

## HV



**VERTICAL  
CENTRIFUGAL  
MONOBLOC PUMPS**

- Q max: 40 m<sup>3</sup>/h
- H max: 22 mlc
- Materials: PP / PVDF

## HPP - HPF



**MAG-DRIVE  
VANE PUMPS**

- Q max: 1000 l/h - H max: 5 bar
- Materials: PP / PVDF

## HTP



**ROTARY VANE  
MAG-DRIVE PUMPS DRY SELF-PRIMING**

- Q max: 2100 l/h - H max: 13 bar
- Materials: AISI 316 L / HASTELLOY-C  
TITANIUM

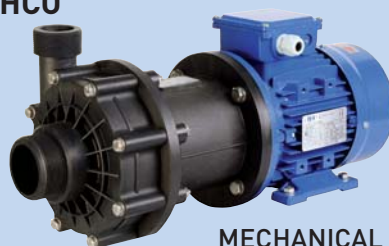
## HVL



**VERTICAL  
CENTRIFUGAL PUMPS  
OPEN IMPELLER**

- Q max: 57 m<sup>3</sup>/h
- H max: 39 mlc
- Materials: PP / PVDF

## HCO



**MECHANICAL SEAL  
CENTRIFUGAL PUMPS**

- Q max: 58 m<sup>3</sup>/h - H max: 38 mlc
- Materials: PP / PVDF

## VPM / VPS / VPL



**LIQUID RING  
VACUUM PUMPS**

- Q max: 450 m<sup>3</sup>/h - H max: 33 mbar
- Materials: AISI 316/316 L SS / ALLOY  
HASTELLOY-C / TITANIUM